

FIG. 5A

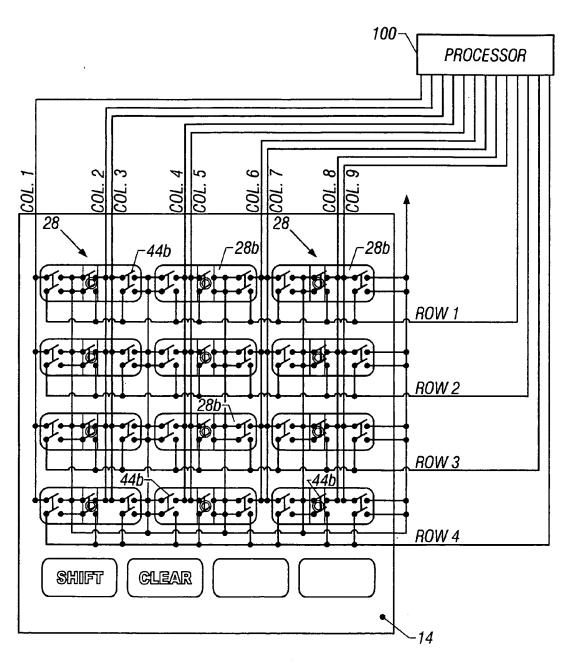


FIG. 5B

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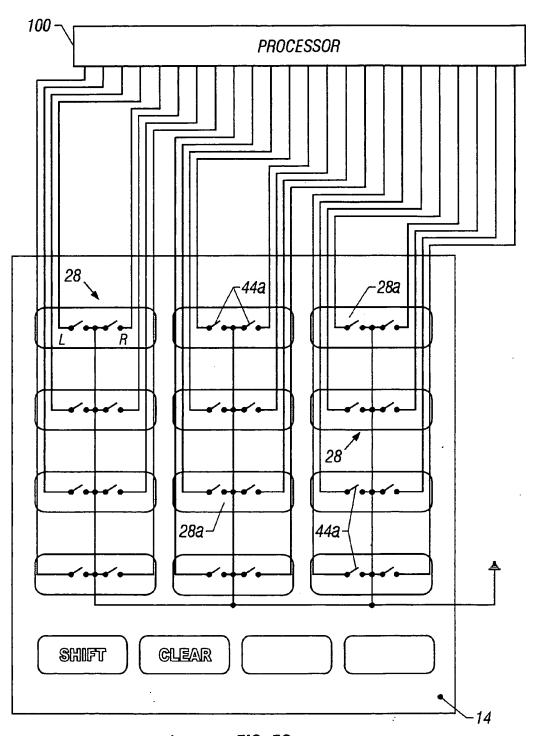


FIG. 5C

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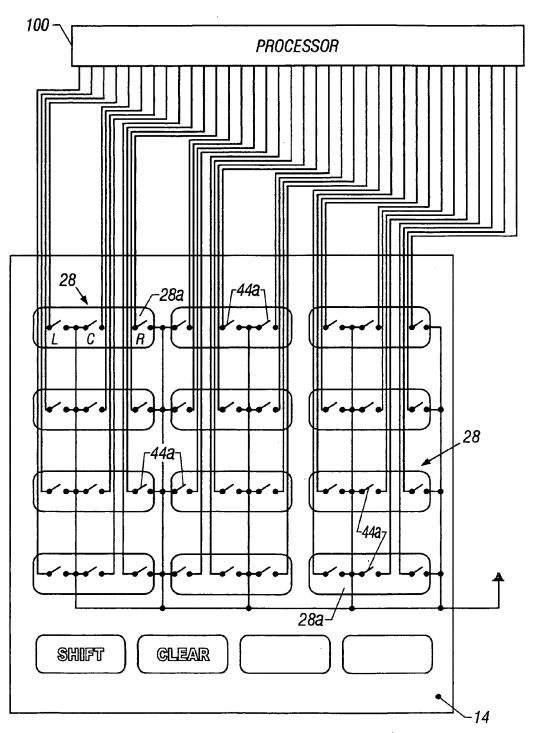


FIG. 5D

| | | DISPLAY | | | |
|--------|-------------------|-------------------|----------|----------|-----------|
| Button | Mode of operation | SHIFT Position | Action A | Action B | Action C |
| 1 | NUMERIC/SHIFT OFF | | 1 | 1 | 1 |
| 2 | NUMERIC/SHIFT OFF | | 2 | 2 | 2 |
| 3 | NUMERIC SHIFT OFF | | 3 | 3 | 3 |
| 4 | NUMERIC/SHIFT OFF | | 4 . | 4 | 4 |
| 5 | NUMERIC/SHIFT OFF | | 5 | 5 | 5 |
| 6 | NUMERIC/SHIFT OFF | | 6 | 6 | 6 |
| 7 | NUMERIC/SHIFT OFF | | 7 | 7 | 7 |
| 88 | NUMERIC/SHIFT OFF | | 8 | 8 | 8 |
| 9 | NUMERIC/SHIFT OFF | | 9 | 9 | 9 |
| * | NUMERIC/SHIFT OFF | | * | * | SHIFT ON |
| 0 | NUMERIC/SHIFT OFF | | 0 | 0 | 0 |
| # | NUMERIC/SHIFT OFF | | # | # | # |
| 1 | ALPHA/SHIFT ON | SHIFT | + | - | 1 |
| 2 | ALPHA/SHIFT ON | SHIFT | Α | В | С |
| 3 | ALPHA/SHIFT ON | SHIFT | D | E | F |
| 4 | ALPHA/SHIFT ON | SHIFT | G | Н | 1 |
| 5 | ALPHA/SHIFT ON | SHIFT | J | К | L |
| 6 | ALPHA/SHIFT ON | SHIFT | М | N | 0 |
| 7 | ALPHA/SHIFT ON | SHIFT | Р | R | S |
| 8 | ALPHA/SHIFT ON | SHIFT | Т | U | V |
| 9 | ALPHA/SHIFT ON | SHIFT | W | Х | Y |
| * | ALPHA/SHIFT ON | SHIFT | Q | * | SHIFT OFF |
| 0 | ALPHA/SHIFT ON | SHIFT | 1 | @ | SPACE |
| # | ALPHA/SHIFT ON | SHIFT | Z | # | • |

Fig. 6A

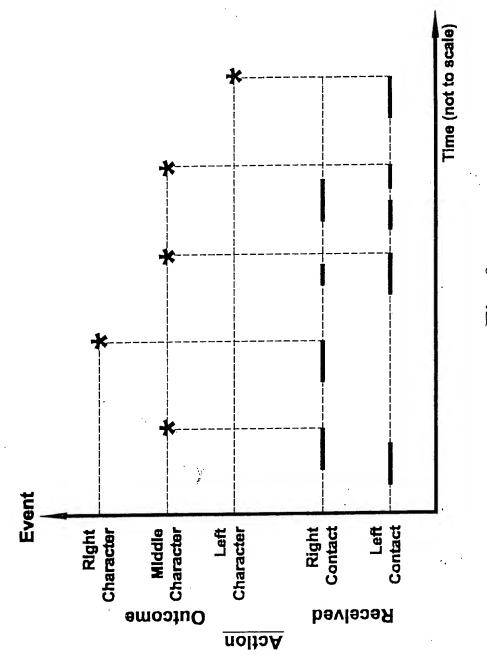
| | | DISPLAY | | | |
|--------|-------------------|-------------------|----------|----------|----------|
| Button | Mode of operation | SHIFT Position | Action A | Action B | Action C |
| 11 | NUMERIC/SHIFT OFF | | 1 | 1 | 1 |
| 2 | NUMERIC/SHIFT OFF | | 2 | 2 | 2 |
| 3 | NUMERIC SHIFT OFF | | 3. | 3 | 3 |
| 4 | NUMERIC/SHIFT OFF | | 4 | 4 | 4 |
| 5 | NUMERIC/SHIFT OFF | | 5 | 5 | 5 |
| 6 | NUMERIC/SHIFT OFF | | 6 | 6 | 6 |
| 7 | NUMERIC/SHIFT OFF | | 7 | 7 | 7 |
| 8 | NUMERIC/SHIFT OFF | | 8 | 8 | 8 |
| 9 | NUMERIC/SHIFT OFF | | 9 | 9 | 9 |
| * | NUMERIC/SHIFT OFF | | * | * | * |
| 0 | NUMERIC/SHIFT OFF | | 0 | 0 | 0 |
| # | NUMERIC/SHIFT OFF | | # | # | # |
| 1 | ALPHA/SHIFT ON | SHIFT | + | - | 1 |
| 2 | ALPHA/SHIFT ON | SHIFT | А | В | С |
| 3 | ALPHA/SHIFT ON | SHIFT | D | E | F |
| 4 | ALPHA/SHIFT ON | SHIFT | G | Н | 1 |
| 5 | ALPHA/SHIFT ON | SHIFT | J | К | L |
| 6 | ALPHA/SHIFT ON | SHIFT | M | N | 0 |
| 7 | ALPHA/SHIFT ON | SHIFT | Р | R | s |
| 8 | ALPHA/SHIFT ON | SHIFT | Т | U | V |
| 9 | ALPHA/SHIFT ON | SHIFT | w | Х | Y |
| * | ALPHA/SHIFT ON | SHIFT | Q | (| * |
| 0 | ALPHA/SHIFT ON | SHIFT | \ | @ | SPACE |
| # | ALPHA/SHIFT ON | SHIFT | Z |) | # |

| KEY PRESSED | | INPUT RECEIVED | | |
|-------------|-------|----------------|-----|--|
| | | COLUMN | ROW | |
| 1 | LEFT | 1 | 1 | |
| | RIGHT | 2 | 1 | |
| 2 | LEFT | 3 | 1 | |
| | RIGHT | 4 | 1 | |
| 3 | LEFT | 5 | 1 | |
| | RIGHT | 6 | 1 | |
| 4 | LEFT | 1 | 2 | |
| T | RIGHT | 2 | 2 | |
| 5 | LEFT | 3 | 2 | |
| | RIGHT | 4 | 2 | |
| 6 | LEFT | 5 | 2 | |
| | RIGHT | 6 | 2 | |
| 7 | LEFT | 1 | 3 | |
| • | RIGHT | 2 | 3 | |
| 8 | LEFT | 3 | 3 | |
| | RIGHT | 4 | 3 | |
| 9 | LEFT | 5 | 3 | |
| | RIGHT | 6 | . 3 | |
| * | LEFT | 1 | 4 | |
| | RIGHT | 2 | 4 | |
| 0 | LEFT | 3 | 4 | |
| | RIGHT | 4 | 4 | |
| # | LEFT | 5 | 4 | |
| .,, | RIGHT | 6 | 4 | |

Fig. 7

| KEY PRESSED | | INPUT RECEIVED | | |
|-------------|--------|----------------------------|---|--|
| | | COLUMN | ROW | |
| 1 | LEFT | 1 | 1 | |
| | CENTER | 2 | 1 | |
| | RIGHT | 3 | 1 | |
| 2 | LEFT | 2 3 4 5 6 | 1 | |
| | CENTER | 5 | 1 | |
| | RIGHT | 6 | 1 | |
| | LEFT | 7 | 1 | |
| 3 | CENTER | 8 | 1 | |
| | RIGHT | 9 | 1 | |
| | LEFT | 1 | 2 | |
| 4 | CENTER | 2 | 2 | |
| | RIGHT | 3 | 2 | |
| | LEFT | 1 2 3 4 5 | 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 | |
| 5 | CENTER | 5 | 2 | |
| | RIGHT | 6 | 2 | |
| | LEFT | 7 | 2 | |
| 6 | CENTER | 8 | 2 | |
| | RIGHT | 9 | 2 | |
| | LEFT | 1 | 3 | |
| 7 | CENTER | 2 3 4 5 6 | 3 | |
| | RIGHT | 3 | 3 | |
| | LEFT | 4 | 3 | |
| 8 | CENTER | 5 | 3 | |
| | RIGHT | | 3 | |
| | LEFT | 7 | 3 | |
| 9 | CENTER | 8 | 3 | |
| | RIGHT | 9 | 3 | |
| | LEFT | 1 | 4 | |
| * | CENTER | 2 | 4 | |
| | RIGHT | 2 3 4 5 6 7 | 4 | |
| | LEFT | 4 | 4 | |
| 0 | CENTER | 5 | 4 | |
| | RIGHT | 6 | 4 | |
| _ | LEFT | 7 | 4 | |
| # | CENTER | 8 | 4 | |
| | RIGHT | 9 | 4 | |

Fig. 8



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Fig. 9